ENGLISH

DIVA SLIM AIR pellet stove

INSTALLATION, USE, MAINTENANCE AND HELPFUL TIPS



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Dear client,

First of all we would like to thank you for choosing a "**KLOVER**" product and we hope you will be satisfied with this product.

Carefully read the warranty certificate on the last page of this *User guide*.

The manual contains a detailed description of the appliance and its operation, instructions for proper installation, basic maintenance and control points, which must be periodically performed; furthermore, it contains practical advice which helps to obtain maximum performance from the appliance with minimum fuel consumption.

Stay warm with KLOVER!

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INTRODUCTION

Important safety instructions

Please read these instructions before installing and using the product.

- The appliance's installation and initial start-up must be performed by skilled personnel trained in the relevant safety standards, who are responsible for the definitive installation of the appliance and its efficient operation. KLOVER SrI shall not be held liable if these precautions are not observed.
- During the installation and use of the appliance, all local regulations including those referring to national and European Standards must be observed.
- Connect the flue gas outlet to a flue with the specifications described in the "Flue and its connection" section of this User guide.
- The appliance is not suitable for installation on a shared flue system.
- If the flue should catch fire, use appropriate fire extinguishing equipment or call the fire brigade.
- Connect the product to an earthed power socket. Avoid using sockets controlled by switches or automatic timers.
- Do not use the power supply cable if damaged or worn.
- If a multiple socket is used, make sure that the total voltage of the connected devices does not exceed the rated voltage for the socket. Also make sure that the total voltage of all the devices connected to the socket does not exceed the maximum permitted level.
- The plug on the appliance's power cable should be connected only once the assembly and installation of the appliance is complete. It should remain accessible after installation if the appliance is not fitted with a suitable and accessible two-pole switch.
- Do not use flammable substances to clean the appliance or its parts.
- Do not leave flammable containers and substances in the place where the appliance is installed.
- The appliance works exclusively with wood pellets and only with the hearth door shut.
- NEVER open the door of the appliance during normal operation.
- The use of poor quality pellets or any other material can damage the appliance operation, voiding the warranty and exempting the manufacturer from all liability.
- Do not use the appliance as an incinerator or for any use other than that for which it was designed.
- Do not use fuels other than those recommended.
- Do not use liquid fuels.
- The appliance, and its outer surfaces in particular, become very hot to the touch during operation; handle with caution in order to avoid burns.
- Keep fuel and flammable materials at a safe distance.
- Only use original spare parts recommended by the manufacturer.
- Do not make any unauthorised modifications to the appliance.
- Do not touch the hot components of the product (ceramic glass, flue pipe) during normal operation.
- Never touch the appliance if you are barefoot and/or if you have wet or damp parts of the body.
- Use the appropriate button to switch off the electrical panel. Do not disconnect the power supply cable while the appliance is operating.
- During the ignition phase and normal operation of the appliance, maintain the necessary safety distance and do not remain standing in front of it.
- Keep children away from the appliance when it is running since they could get burned by touching its hot components.
- Do not leave the packaging elements within reach of children or unassisted disabled persons.
- Children and inexperienced people must not be allowed to use the appliance.
- The appliance may be used by children no younger than 8 years of age and people with reduced physical, sensory or mental capabilities, or those without experience of the appliance, as long as they are supervised or have received instructions on how to use the appliance safely and understand the hazards inherent to the appliance.
- Children should not play with the appliance.
- User maintenance and cleaning operations should not be carried out by unsupervised children.
- Do not use the appliance in ways other than those indicated in this user guide.
- The appliance is designed for indoor use only.
- This user guide constitutes an integral part of the appliance. If the product is sold to another user, this manual must be passed on to the new owner.

KLOVER S.R.L. DECLINES ALL LIABILITY IN CASE OF ACCIDENTS DUE TO FAILURE TO COMPLY WITH THE SPECIFICATIONS OF THIS MANUAL.

KLOVER S.R.L. DECLINES ALL LIABILITY DUE TO INCORRECT USE OF THE PRODUCT BY THE USER, UNAUTHORISED MODIFICATION AND/OR REPAIRS, AND USE OF NON-ORIGINAL SPARE PARTS OR SPARE PARTS NOT SPECIFICALLY DESIGNED FOR USE ON THIS PRODUCT MODEL.

KLOVER S.R.L. SHALL NOT BE HELD LIABLE FOR THE STOVE'S INSTALLATION. THE INSTALLER IS THE SOLE PARTY RESPONSIBLE FOR THIS OPERATION AND IS ALSO ENTRUSTED WITH CHECKING THE FLUE, EXTERNAL AIR VENT AND THE CORRECTNESS OF THE PROPOSED INSTALLATION SOLUTIONS. ALL THE SAFETY REGULATIONS SET OUT IN THE SPECIFIC LAWS IN FORCE IN THE COUNTRY WHERE THE MACHINE IS INSTALLED MUST BE OBSERVED.

NON-ROUTINE MAINTENANCE MUST ONLY BE PERFORMED BY AUTHORISED AND QUALIFIED STAFF.

To ensure the validity of the warranty, the user must comply with the instructions contained in this guide and, in particular, must:

- Use the appliance within its operating limits;
- Regularly perform all maintenance activities;
- Authorise expert and competent people to use the appliance.

Failure to comply with the instructions contained in this guide shall automatically void the warranty.

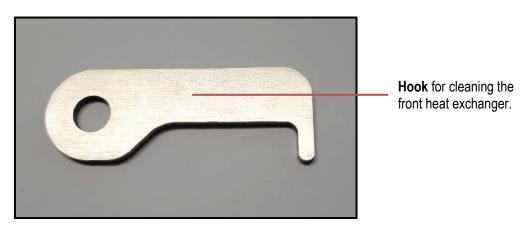
THE MACHINE AND THE PELLETS

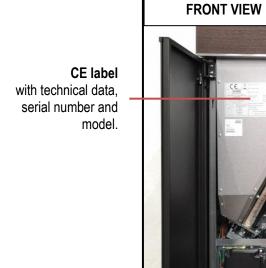
Components of the appliance

The appliance is supplied with the following material:

- 1 User, installation and maintenance manual;
- 1 Power supply cable;
- 1 Cleaning hook for the front heat exchanger;
- 1 Remote control.

The images below show certain details of the appliance:





Rod for cleaning the front heat exchanger.

Flue pressure switch.

Flue gas extractor.

Inspection Port flue gas extractor passage.

Control unit.

Inspection Port lower flue gas passage.

Anti-interference filter.

Main switch, connection for power supply cable with 2 built-in fuses (4A 250V).

Support panel.

R.T. terminal for room main thermostat connection.

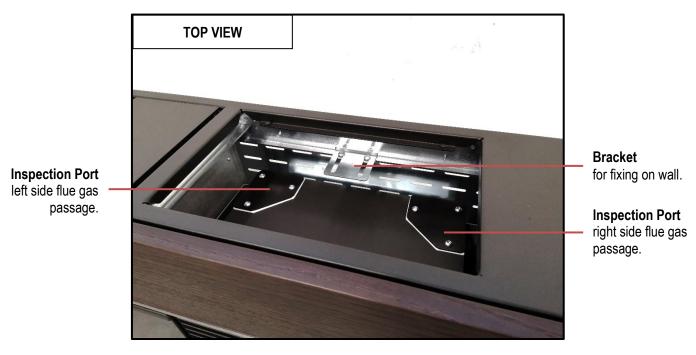


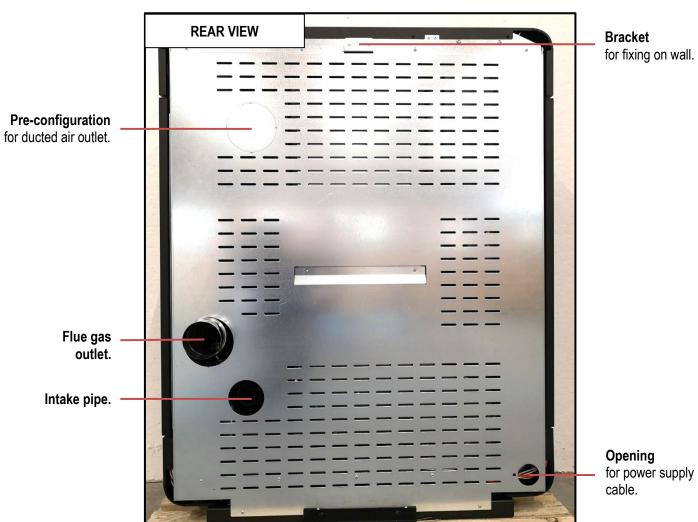
Safety thermostat with manual reset.

Serial Connector to connect to the Technical Assistance Centre.

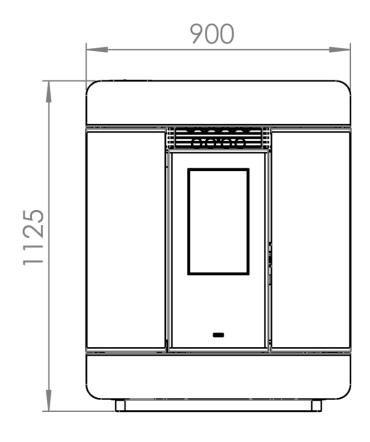
Wi-Fi information (MAC address and registration code).

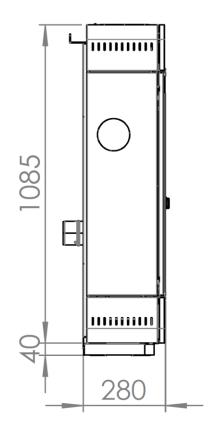
R.T. Terminal/Probe for ducted room thermostat connection / ducted room probe connection.

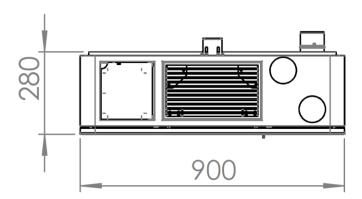




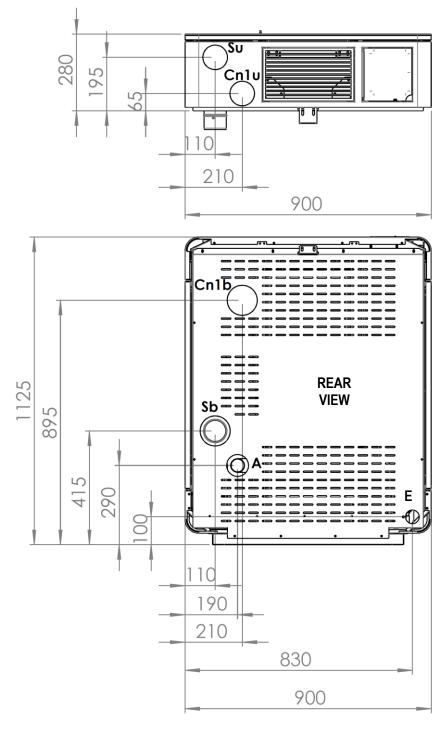
Overall dimensions







Connections data sheet



Description of connections	
A = Intake pipe	50 mm
Cn1u = Upper ducted air outlet (only on configured models)	80 mm M
Cn1b = Rear ducted air outlet (only on configured models)	80 mm M
Sb = Rear flue gas outlet	80 mm M
Su = Upper flue gas outlet	80 mm F
E = Electricity connection	

Pellet properties

The appliance has been tested with all types of pellets available on the market. The pellets must have the following properties:

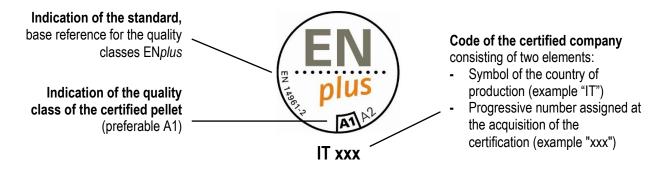
- Diameter 6 mm.
- Maximum length 35 mm.
- Maximum humidity content 8 9 %.
- 100% wood. Totally additive-free.
- Maximum ash residue 1.1 %.

To obtain good performance from the appliance, we recommend using good quality pellets. <u>Pellets should be poured</u> into the tank using a shovel, and not directly from the bag.

Good quality pellets should have the following properties:

- Constant diameter cylinders with a smooth, shiny surface;
- There should not be a lot of sawdust inside the packaging;
- After grabbing a bunch of pellets and placing them into a container filled with water, good-quality pellets will sink and poor-quality ones will tend to float;
- The quality certification data, in particular conformity to international standards such as EN14961-2, DIN 51731 and O-NORM M7135, should be indicated on the packaging:
- The packages should be intact since pellets tend to absorb humidity. Humidity not only reduces the calorific value and increases the amount of flue gases expelled, but also causes swelling of the product which may create problems with the appliance.

The production of pellets must be compliant with some international standards (such as EN14961-2, DIN 51731 and O-NORM M7135) which establish minimum values for quality checks on pellets. To facilitate the right choice of the combustible material you can find below one of the most common certification marks identifying the quality of the pellets:



The use of poor quality pellets or any other material can damage the appliance operation, voiding the warranty and exempting the manufacturer from all liability.

In order to guarantee trouble-free combustion, the pellets must be stored in a dry place.

REQUIREMENTS OF THE PLACE OF INSTALLATION

Positioning

The initial phase for best installation of the appliance is to determine its optimum location; the following elements need to be considered:

- The possibility of creating an external air vent:
- The possibility of creating a straight flue, preferably coaxial to the outlet of the appliance;
- Ease of access for cleaning the appliance, the flue gas exhaust pipes and the flue.

The unit must be installed on a floor with a suitable load capacity. If the existing building does not fulfil this requirement appropriate measures (e.g. load distribution plate) must be taken.

The minimum safety distance from flammable materials must be at least 200 mm from the sides and 800 mm from the front of the appliance.

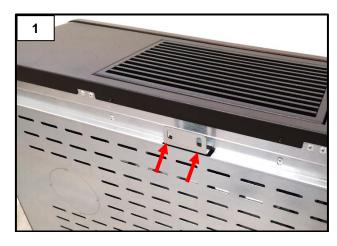
Relocating the appliance should not be done by forcing on the handle, glass or majolica elements.

The installation must guarantee easy access for cleaning the appliance, the flue gas exhaust pipes and the flue, and any subsequent maintenance operation by the Authorised technical assistance centre.

Once you have found the best location for the appliance, position it following the instructions given below.

The appliance must not be installed in small rooms, bedrooms, bathrooms or in areas with an explosive atmosphere.

We recommend you fix the appliance to the wall for improved stability. Therefore, proceed as follows:

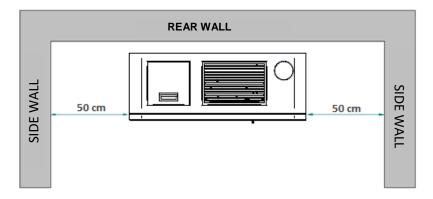




- 1. Make two 8 mm diameter holes on the rear wall, at a height and distance according to the bracket (figure 1). Insert suitable wall plugs in the wall with a diameter of 8 mm.
- 2. Remove the bracket fixed to the appliance by undoing the two screws indicated in the image (figure 2).
- 3. Fix the bracket to the wall. Use suitable washers if needed.
- 4. Position the appliance against the wall making sure that the bracket matches its original position on the appliance.
- 5. Tighten the two screws on the bracket and appliance (figure 2), while keeping the appliance at the chosen distance from the wall.

Spaces around and above the appliance

The figure below shows the minimum distances from walls or other not-easily-removable furniture, that need to be taken into consideration when positioning the appliance.



Any shelves or false ceilings mounted above the appliance must be at least 75 cm away from the top part of it. Furniture and movable objects made from flammable materials must be positioned at least 50 cm from the side surfaces of the appliance; these objects must be moved when performing maintenance on the appliance. Protect all structures that can catch fire against the radiated heat of the fire.

External air intake

During operation, the appliance takes in air from the environment in which it is installed; It is therefore essential that this air is replaced through an external air vent. The absence of the air vent may affect the flue draught and therefore the combustion and the safety of the appliance.

Therefore **it is mandatory** to install an external air vent with a minimum completely free passage of **at least 80 cm²** (round hole with minimum diameter of 15 cm protected with a special fixed large mesh grid).

If the wall behind the appliance is on the outside, we recommend you make the hole near it at about 20 cm above the ground (see example in Fig. A).

If it is not possible to put an air vent in the wall behind the appliance, make a hole in a perimeter wall in the room where it is installed. If it not possible to put the external air vent in the same room as where the appliance is installed, this hole can be made in an adjoining room as long as this room communicates permanently, by means of a transit hole (15 cm minimum diameter).

The hole must be protected externally with a fixed grille. The protective grille must be checked periodically to ensure that it is not obstructed, thereby impeding the passage of air. **Therefore keep the air vents clear of obstructions.**

The UNI 10683 Standard FORBIDS the drawing of combustion air from garages, warehouses storing combustible materials, or from business premises with a fire hazard.

If there are other heating or extraction devices inside the room, the air vents must guarantee a sufficient amount of air for properly operating all the devices.

Only sealed appliances (e.g. C type gas appliances, according to the UNI 7129 Standard) or appliances that do not cause a lower pressure compared with the external environment can pre-exist or be installed in the place where the appliance is installed.

Extractor fans can cause malfunctions to the appliance if used in the same room.

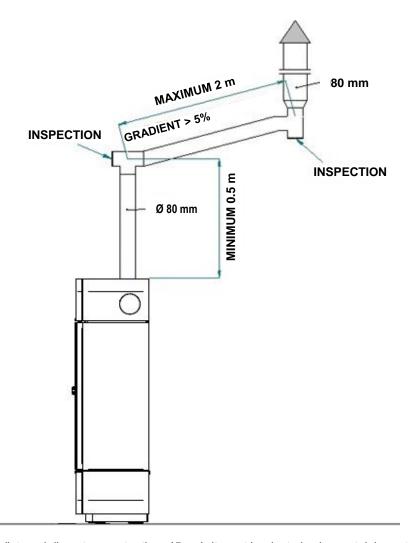
The flue and connection to the same

The **flue** is an essential element for the efficient operation of the appliance. The flue must have the minimum cross-sectional dimensions stated in the appliance's technical specifications (80 mm). Each product must be equipped with its own flue, without other adjoining elements (boilers, chimneys, stoves, etc.). The flue dimensions are closely related to its height, which must be measured from the appliance flue gas outlet to the base of the stack. In order to guarantee adequate draught, the surface of the chimney flue outlet must be double the flue cross-section. The discharge pipe for combustion products generated by the forced draught device, must comply with the following requirements:

- It must seal off the combustion gases, as well as being waterproof and suitably isolated and insulated in relation to the conditions of use (refer to UNI 9615);
- It must be made of suitable materials capable of withstanding normal mechanical stress, heat, and the effects of combustion gases and condensate, if any;
- It must go upwards after the vertical section, for the entire remaining part, with a minimum gradient of 5%. The sub-horizontal section must not have a length greater than ¼ of the effective height H of the flue or chimney, and must not be longer than 2,000 mm;
- It must preferably have a round internal cross-section: square or rectangular cross-sections must have rounded corners with radius not inferior to 20 mm;
- It must have a constant, free and independent internal cross section;
- Rectangular cross-sections must have a maximum ratio of 1.5 between the sides;
- If the flue is installed externally, it must be insulated in order to prevent the flue gases from cooling and forming condensation:
- Parts made from non-combustible materials capable of withstanding combustion gases and potential condensation
 must be used for mounting the flue gas pipes (for the section from the appliance to the flue inlet); it is strictly forbidden to use flue pipes made of aluminium;
- It is forbidden to use fibre cement pipes to connect the appliance to the flue;
- Flue gas conduits must not pass through rooms in which the installation of combustion devices is prohibited;
- The flue gas conduits must be assembled in such a way as to guarantee adequate sealing of flue gases during low pressure operation of the appliance;
- The installation of horizontal sections is prohibited;
- It is prohibited to use counter sloping elements;
- The flue gas pipe must allow for the recovery of soot or be cleanable, and must have a constant cross-section;
- It is forbidden to allow other air intake conduits and system pipes to transit inside the flue gas pipes, even if they are
 over-sized.

FURTHER SPECIFICATIONS TO BE CONSIDERED

- The appliance works with the combustion chamber in depression and the flue pipe in pressure; it is essential that the flue gas outlet is hermetically sealed.
- The flue pipes inside the installation room must be made of a suitable material (see applicable regulations) and equipped with sealing gaskets with a minimum diameter of 80 mm.
- The pipes must have a double wall (thermally insulated) or be suitably insulated with rock wool. The maximum temperature of the flue pipe inside the room must not exceed 70°C.
- IT IS MANDATORY TO HAVE AN INITIAL VERTICAL SECTION OF AT LEAST 1.5 M IN ORDER TO GUARANTEE CORRECT FLUE GAS DISCHARGE.
- Every direction change must be carried out with a T-shaped fitting and inspection cap. The pipes must be smoketight thanks to special seals capable of withstanding temperatures of up to 250°C. Secure the pipes to the wall with special collars to prevent any vibration.
- IT IS STRICTLY FORBIDDEN TO INSTALL DRAUGHT REGULATION VALVES (BUTTERFLY VALVES).



If the flue is old or too large (internal diameter greater than 15 cm), it must be ducted using a stainless steel pipe that is suitably insulated (with rock wool or vermiculite) and sized according to the route. The connection to the flue must be appropriately sealed.

When assembling the flue, there must be no more than 4 direction changes, including the initial T-shaped fitting.

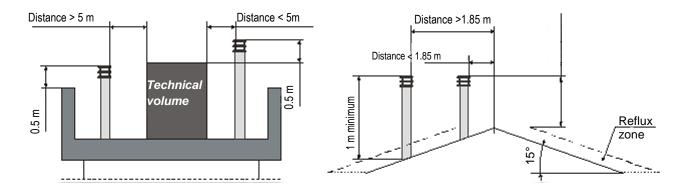
Chimney

The **chimney** is a device crowning the flue, used to ease dispersion of combustion products. It must satisfy the following requirements:

- It must have a usable outlet cross-section which cannot be smaller than double that of the flue onto which it is inserted:
- It must be shaped in such a way as to prevent rainwater or snow from entering the flue;
- It must be built in such a way as to ensure the discharge of combustion by-products even in the event of winds from every direction and inclination.

The outlet height (where height refers to the top of the flue, regardless of any chimney stacks) must be outside of the so-called reflux zone, in order to prevent the formation of counter-pressures preventing the free discharge of combustion by-products into the atmosphere.

It is therefore necessary that the minimum heights - indicated in the following diagrams - are observed:



ELECTRICAL CONNECTION

The electric connection must only be performed by **qualified staff**, in compliance with all general and local safety standards.

Check that the power supply voltage and frequency correspond to 220V – 50 Hz.

The appliance's safety is ensured when it is properly connected to an efficient earthing system.

When making the electric connection to the mains power supply, include a 6 A - Id 30 mA magnetothermic residual-current device with suitable breaking load. The electric connections, including the earth connection, must be made after shutting off the electrical system.

When completing the system, bear in mind that the cables must be laid in an unmovable manner and far from parts subject to high temperatures. During the final wiring of the circuit, only use components with a suitable electrical protection rating. Do not pass electric cables in the immediate vicinity of the flue gas pipe, unless they are insulated with suitable materials.

KLOVER SrI declines all responsibility for injury to persons and animals or damage to objects due to failure to connect the appliance to earth or to comply with IEC specifications.

Connection to the room thermostat or to a room probe

One or more terminal blocks are located behind the appliance to connect any room thermostats or probes (refer to "Components of the appliance").

The table below describes the operation of the terminal blocks found on the rear panel of the appliance.

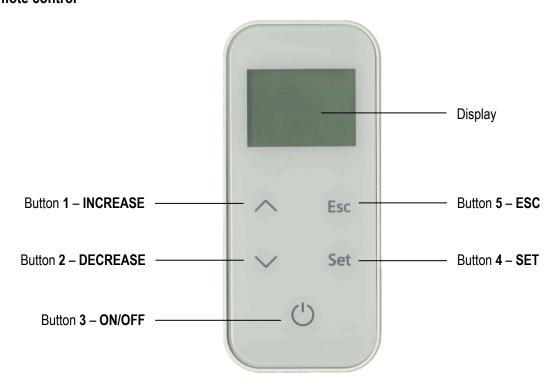
Terminal block	Description	Type of management	Action
1	Main room	Only with room thermostat *	With the contact CLOSED, the appliance continues to work at the set power, regardless of the SET ROOM (button 1) value and the status of any other room thermostats or probes connected. With the contact OPEN, the appliance enters the modulation mode, provided that the room temperature set in SET ROOM (button 1) is fulfilled and that any other room thermostats or probes connected are fulfilled.
2	Ducted room 1 (only on configured model)	With room thermostat * (it must be enabled in Pr56 with value T1)	With the contact CLOSED, the appliance continues to work at the set power, regardless of the SET ROOM (button 1) value and the status of any other thermostats connected. With the contact OPEN, the appliance enters the modulation mode, provided that the room temperature set in SET ROOM (button 1) is fulfilled and that any other thermostats connected. The ducted room 1 fan modulates nonetheless.
modely		With room probe ** (it must be enabled in Pr56 with value S1)	When the temperature set in SET ROOM 1 (Menu 12-SET ROOM DUCT.) is reached, the appliance enters the modulation mode, provided that the room temperature set in SET ROOM (button 1) is fulfilled and that any other room thermostats or probes connected are fulfilled. The ducted room 1 fan modulates nonetheless.

^{*} Connect a non-powered room thermostat to manage a simple dry contact and, preferably, with a settable hysteresis value.

^{**} Connect a room probe type "NTC 10K ± 1%".

DESCRIPTION OF COMPONENTS

Remote control



The remote control must be powered by 3 x 1.5 V AAA batteries (model LR03 / MN2400); the battery life depends on how frequently the remote control is used.

The table describes the operation of the buttons on the remote control.

Button	Description	Mode	Action
		When pressed the first time	Allows for modifying the "SET ROOM" room temperature.
1	INCREASE	Programming mode	Changes/increases the value of the selected menu item. Increases the room temperature/working power value.
		When pressed the first time	Allows for modifying the "SET OUTPUT" working power.
2	DECREASE	Programming mode	Changes/decreases the value of the selected menu item. Decreases the room temperature/working power value. In "SET DUCTING", it modifies the value of ducting 1.
	3 ON/OFF	When pressed the first time	It switches on the display.
		Working	Switches the appliance off when pressed for 2 seconds.
3		In off mode	Switches the appliance on when pressed for 2 seconds.
		In alarm block	Releases the alarm.
		Menu/programming mode	Goes to the previous menu level, without saving the changes made.
		When pressed the first time	Accesses the user menu.
4	SET	Menu mode	Goes to the next menu, saving the changes made.
		Programming mode	Goes to the next sub-menu item, saving the changes made.
		When pressed the first time	Allows for modifying the speed of the ducted fans "SET DUCTING".
5	5 ESC	Menu mode	Goes to the previous menu, saving the changes made.
		Programming mode	Goes to the previous sub-menu item, storing the changes made.

Support panel



The underlying table describes the operation of the buttons on the remote control.

Button	Description	Mode	Action
		Working	Switches the appliance off when pressed for 2 seconds.
1 ON/OFF	In off mode	Switches the appliance on when pressed for 2 seconds.	
		In alarm block	Releases the alarm.
2	POWER	Whenever pressed	Allows for modifying the "SET OUTPUT" working power, by selecting among 3 available power levels (1, 3 or 5).

The underlying table describes the operation of the LEDs present on the support panel.

LED	Description	Status	Action	
		Off	The appliance is off.	
1	ON/OFF	Flashing	The appliance is switching off.	
		Lit	The appliance is on.	
		LED 2 Lit, LED 3 Off	Power setting on 1	
2 and POWER STATUS	LED 2 Lit, LED 3 Lit	Power setting on 3		
	LED 2 Off, LED 3 Lit	Power setting on 5		
4	RECEPTION	Lit	Switches on when the PCB receives a signal from the remote control.	
5	ALARM	Lit	The appliance is in alarm mode.	
6	WI-FI	Off	The appliance is not connected to a Wi-Fi network.	
0	VVI-FI	Lit	The appliance is connected to a Wi-Fi network.	

The support panel allows for managing the basic functions concerning the appliance's operation when there is no remote control

The following operations can therefore be carried out:

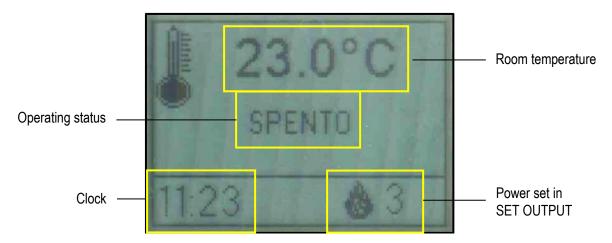
- SWITCHING ON/OFF: by pressing and holding button 1 (On/Off) for 2 seconds
- WORKING POWER CHANGE: whenever button 2 (Power) is pressed, the working power can be varied by selecting one of the three available power levels (1, 3 or 5). With the help of LEDs 2 and 3 (Power status), it is possible to verify which power level was chosen (see LED table).

Display

The remote control display shows information on the appliance's operating status.

The display can be switched on by pressing button 3 (On/Off).

The underlying figure shows the display during normal operating conditions.



By accessing the menu through button 4 (Set), it is possible to obtain various types of display modes and perform settings according to the selected menu.

The figure below shows the display when the menus are being browsed.



THE MENU

Pressing button 4 (Set) of the remote control allows for accessing the menu.

The menu is divided into different items and levels, providing access to the programming and settings options of the appliance.

Buttons 1 and 2 (Increase and Decrease) can be used to select the menu to be modified.

Button 4 (Set) can be used to access the menu to be modified, saving the changed made.

Button 5 (Set) can be used to return to the previous menu level, saving the changed made.

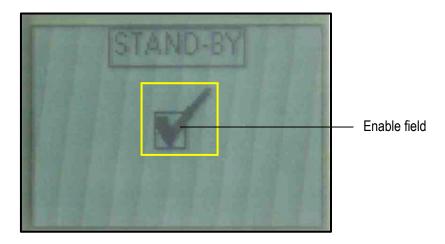
Inside the menus to be modified, buttons 1 and 2 (Increase and Decrease) can be used to modify the value set in the selected menu.

Listed below are the menus present on the PCB, with the relevant explanations.

Menu 01 – Stand-by

If <u>not enabled</u>, the shutting down of the appliance is disabled even when the temperature set in "SET ROOM" is reached. The working power will nevertheless be modulated; the word "MODULATION" will appear on the display. If <u>enabled</u>, the appliance enter the modulation and/or shutdown mode once the temperature set in "SET ROOM" is reached. During the modulation phase, the wording "OK ST-BY" will appear on the display; when the appliance shuts down, "STAND-BY" appears.

The image below shows the display when STAND-BY is enabled:



Menu 02 - Chrono

Allows for accessing the various timer programmes (daily, weekly and weekend).

In order to prevent any undesired switching on/off operations, only activate and use a single programme at a time (daily, weekly or weekend programme).

• Sub-menu 02 – 01 – Enabl. chrono

Allows for enabling and disabling all the timer's functions. For correct use, it should be enabled with buttons 1 or 2 (Increase and Decrease) when at least one on/off programme (daily, weekly or weekend) is enabled.

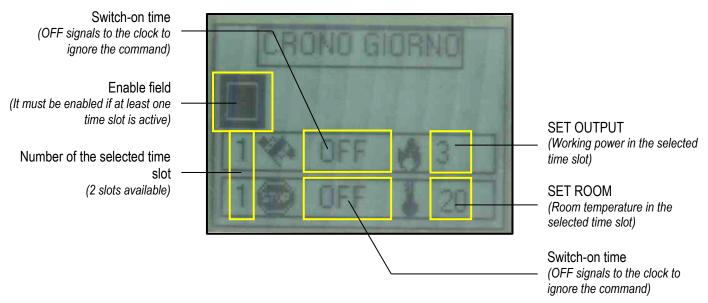
The image below shows the display when the timer is enabled:



• Sub-menu 02 – 02 – Daily chrono

Allows for enabling, disabling and setting the daily programme functions.

The daily timer has two time slots delimited by the set times, as shown in the following diagram (they do not have to be used simultaneously):

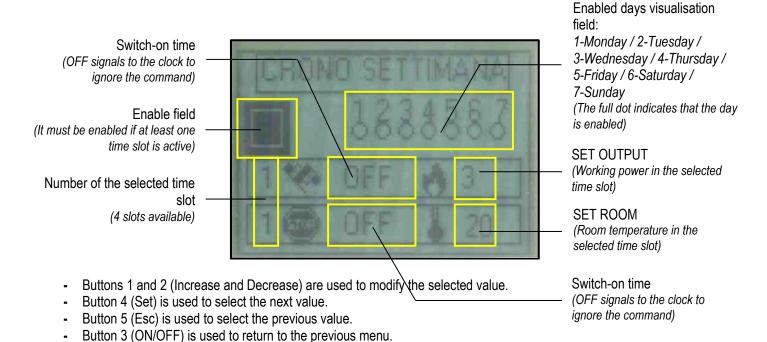


- Buttons 1 and 2 (Increase and Decrease) are used to modify the selected value.
- Button 4 (Set) is used to select the next value.
- Button 5 (Esc) is used to select the previous value.
- Button 3 (ON/OFF) is used to return to the previous menu.

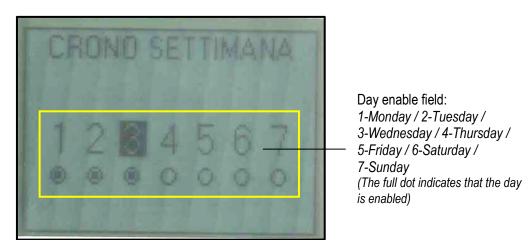
• Sub-menu 02 – 03 – Weekly chrono

Allows for enabling, disabling and setting the weekly timer functions.

The weekly timer has four time slots delimited by the set times, as shown in the following diagram (they do not have to be used simultaneously):



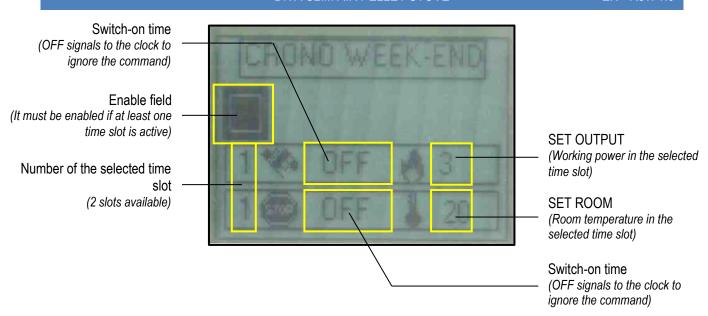
After setting the switch-on/off times and the power and temperature set-points, it is necessary to select the days on which to enable the reference time slot. Shown below is the window in which the days must be enabled:



- Button 1 (Increase) is used to enable the selected day.
- Button 2 (Decrease) is used to disable the selected day.
- Button 4 (Set) is used to select the next day.
- Button 5 (Esc) is used to select the previous day.
- Button 3 (ON/OFF) is used to return to the previous menu.

• Sub-menu 02 – 04 – Week-end chrono

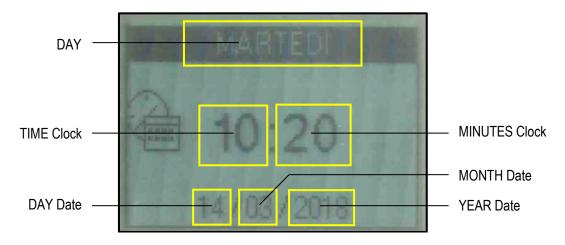
Allows for enabling, disabling and setting the weekend timer functions (applies to Saturday and Sunday).



- Buttons 1 and 2 (Increase and Decrease) are used to modify the selected value.
- Button 4 (Set) is used to select the next value.
- Button 5 (Esc) is used to select the previous value.
- Button 3 (ON/OFF) is used to return to the previous menu.

Menu 03 - Set clock

It allows you to set the day, time and current date.



- Buttons 1 and 2 (Increase and Decrease) are used to modify the selected value.
- Button 4 (Set) is used to select the next value.
- Button 5 (Esc) is used to select the previous value.
- Button 3 (ON/OFF) is used to return to the previous menu.

Menu 04 - Language

Allows you to select the dialogue language from the available choices (Italian, English, French, German and Spanish).

Menu 05 - Settings

It allows you to regulate the various remote control settings.

The table below indicates the settings with the relevant meaning:

Menu	Meaning	Settable values *
BOARD BEEPS	Enables/disables the beep sound on the power board	ON – OFF
BACKLIGHT ON	Adjusts the time that the display remains illuminated	2 – 10 sec
DISPLAY ON	Adjusts the time that the display remains on	15–60 sec ON
BRIGHTNESS	Enables/disables the illumination of the display	ON – OFF
DISPLAY CONTRAST	Adjusts the display contrast	15 – 60 #
KEY BEEPS	Enables/disables the beeps every time the remote control keys are pressed	ON – OFF

^{*} The settings can affect the life of the batteries in the remote control.

Menu 06 - Initial load

Enables pellet pre-loading for 90" when the appliance is switched off and cooled down. Start the function with button 1 (Increase) and stop it with button 3 (On/Off). This may be useful if the appliance is switched on after the tank has been completely emptied, or when it is filled for the first time. Warning: once the operation has been completed, before switching on the appliance you should empty any pellets left inside the ash box.

Menu 07 - Stove status

It allows you to view instantly the status of the appliance, showing the operating conditions of the various devices connected to it. Several pages are displayed in succession. The data is reserved for Technical assistance Centre. The table below indicates the various devices with the relevant meaning:

Display message	Meaning		
L04-270218 (example)	Code of the firmware loaded in the control unit.		
AIR 1.0 (example)	Code of the firmware loaded in the remote control.		
T.SMOKE	Indicates the temperature measured by the probe inside the combustion chamber.		
T.ROOM	Indicates the room temperature measured by the probe on the remote control.		
T.ROOM 1	Indicates the temperature in ducted room 1 as measured by the probe, if there is one connected. Indicates the status of the room thermostat, if there is one connected: (OFF = R.T. contact OPEN = Thermostat not triggered); (ON = R.T. contact CLOSED = Thermostat triggered).		
T.ROOM 2	Indicates the temperature in ducted room 2 as measured by the probe, if there is one connected. Indicates the status of the room thermostat, if there is one connected: (OFF = R.T. contact OPEN = Thermostat not triggered); (ON = R.T. contact CLOSED = Thermostat triggered).		
ASP.RPM	Indicates the speed of the fume extractor.		
LOAD	Indicates the pellet loading interval.		
STATUS T.A.	Indicates the status of the main room thermostat. (OFF = R.T. contact OPEN = Thermostat not triggered); (ON = R.T. contact CLOSED = Thermostat triggered).		
AIR SPEED	Indicates the speed of the front air fan.		
DUCT. 1	Indicates the speed of the air in ducted room 1.		
DUCT. 2	Indicates the speed of the air in ducted room 2.		
TIMER 1	Indicates the end (in minutes) of the current operating phase.		
TIMER 2	Indicates the end (in seconds) of the current operating phase.		

ALARM DELAY	In the event of an alarm, it indicates the time (in seconds) after which the alarm appears on the display.		
T.MOTHERBOARD	Indicates the temperature measured by the probe inside the control unit.		
G.A.S.	Indicates the status of the brazier cleaner. (OFF = Contact OPEN = Brazier not aligned) (ON = Contact CLOSED = Brazier aligned)		
PELLET LEV.	Indicates the status of the pellet level sensor inside the tank. (OFF = Sensor covered = Pellets in the tank above the reserve limit) (ON = Sensor uncovered = Pellets in the tank below the reserve limit)		
SERVICE	Indicates the hours remaining before servicing, to be requested from the Technical Assistance Centre.		

Menu 08 - Wi-Fi status

Allows for viewing the current status of the built-in Wi-Fi board.

The image below shows the display of the Wi-Fi board status:



The table below indicates the various items with the relevant meaning:

Display message	Meaning Values displayed		Values displayed	
SIGNAL	Indicates the value of the Wi-Fi signal measured by the reception board.		0 / 100	
CHANNEL	Indicates the channel to which the Wi-Fi board is connected.		1 – 6 – 11	
VERSION	Indicates the firmware version loaded on the Wi-Fi board.		-	
WIFI STATUS	Indicates the status of the Wi-Fi board.	1 2 3 4 5 6 7 8	Initialisation Access Point Update download phase Update Station search Station found Attempt to connect to server Wi-Fi connection active	
RESET	Allows for resetting the Wi-Fi connection configured previously.		-	

Menu 09 - User settings *

Menu reserved for expert users only; allows for calibrating pellet loading (TYPE PELLET) and the flue gas extraction speed (TYPE CHIMNEY) in a limited manner, according to the procedures indicated in the following table:

Menu	Meaning	Settable values	
PELLET TYPE	By increasing the value by a single unit, the pellet load is increased by about 2%.	-9 / +9	
	By reducing the value by a single unit, the pellet load is reduced by about 2%.	-97+9	
CHIMNEY TYPE	By increasing the value by a single unit, the flue gas extractor speed (and therefore the flow of combustion air) is increased by about 3%.	-9 / +9	
CHIMNET TIPE	By reducing the value by a single unit, the flue gas extractor speed (and therefore the flow of combustion air) is reduced by about 3%.	-9 / +9	

^{*} Unauthorised access can cause serious damage to equipment, objects and the environment, as well as personal injuries. Klover declines all responsibility deriving from improper calibration of these values.

Menu 10 – Technical calibration

Allows you to access all data reserved for the Technical Assistance Centre. <u>Access is protected by a password.</u>
<u>Unauthorised access can cause serious damage to the equipment, to things and the environment as well as personal injuries.</u>

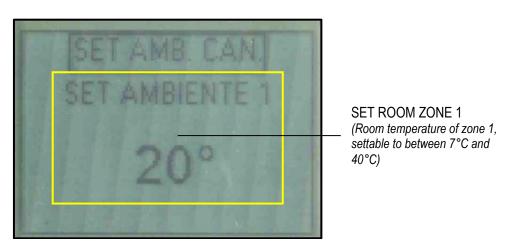
Menu 11 – Relax function (Menu not available)

Allows for reducing the front air fan speed for a pre-set time (90 min).

Menu 12 – Set Room Duct. (menu displayed only on specific models)

Allows for accessing and modifying the room temperature in zone 1 and zone 2, managed by the respective fans (see also "Modifying the ducted air speed set-points").

The image below shows the window inside the "SET ROOM DUCT." section:



To modify the room temperature, simply select the "SET ROOM DUCT." value to be modified ("SET ROOM 1" or "SET ROOM 2") by pressing button 4 (Set) or 5 (Esc).

Then press buttons 1 and 2 (Increase and Decrease) to modify the value; it is possible to set a value between 7°C and 40°C.

Press button 3 (On/Off) to exit the menu, saving the set value.

INITIAL SETTINGS

Connecting the remote control

Whenever the product is switched on for the first time or the user wishes to change the connection channel, the remote control should be interfaced with the support panel mounted on the device, by proceeding as follows:

- 1. Simultaneously press and hold for a few seconds buttons 3 (On/Off) and 4 (Set) of the remote control.
- 2. The wording "RADIO ID MENU" will appear alongside if previously configured the channel with which the remote control has been associated.
- 3. Press button 2 (Decrease) of the remote control to select "NEW" and confirm with button 4 (Set).
- 4. Use button 1 or 2 (Increase or Decrease) of the remote control to select the channel on which to make the connection, without confirming with button 4 (Set).
- 5. Simultaneously press and hold buttons 1 (On/Off) and 2 (Power) of the support panel until all LEDs light up.
- 6. Confirm the previously selected channel using button 4 (Set) of the remote control, which will then start searching for the channel to which it must connect.
- 7. If the operation was carried out correctly, the remote control will display the appliance's usage window. If not, a message will appear to signal that the channel has not been found; in such case, repeat the operation.

Connection to the Wi-Fi network

The appliance is equipped with a Wi-Fi board that enables it to be remotely controlled via the "My Klover" Web app, which can be downloaded to smartphones, tablets or PCs from various stores (Apple, Android, etc.).

The procedure for connecting the Wi-Fi board to the domestic network is explained below (also refer to the "Menu 08 – WiFi status" paragraph in the "THE MENU" chapter):

- 1. Power the appliance by touching the "ON/OFF main switch" located on the rear of the appliance itself.
- 2. Check that inside "Menu 08 WIFI STATUS" of the remote control, under "WIFI STATUS", value "02" (Access Point) is present; if not, run the "RESET" procedure present in "Menu 08 WIFI STATUS".
- 3. Use a device equipped with a Wi-Fi peripheral (PC / tablet / smartphone) to make the connection to the Wi-Fi network created from the Wi-Fi module.
 - The name of the network to be searched (SSID) will be similar to "Klover-Wifi_xxxxxx", where "xxxxxx" denotes the part of the MAC address of the module.
 - Check that the device equipped with a Wi-Fi peripheral (PC / tablet / smartphone) has actually connected to the network created by the appliance's Wi-Fi module.
- 4. Open the current browser (Internet Explorer, Firefox, Safari, etc.) used by the device and enter the following address in the address bar: http://192.168.1.1.



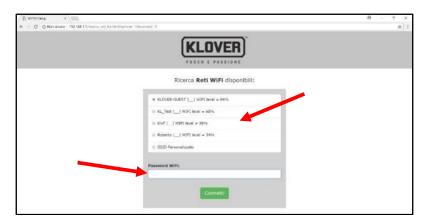
5. The home page of the Wi-Fi module will open up (Welcome to WiFiMi Setup). Select the language to be used for the successive Wi-Fi module configuration menus.



6. A new page will open up (Welcome to WiFiMi Setup) containing all the data relative to the previous configuration. To reconnect the module to the indicated network, go to "Menu 08 – WIFI STATUS" of the remote control, select "RESET" and wait for value "08" (Module connected) to appear under "WIFI STATUS". If you wish to connect to a new network, press the "Search Wi-Fi Networks" button.



7. The last configuration page will then open up (Search available Wi-Fi networks). Select the network to be used from the list in order to connect the appliance to the Internet then enter the password for the selected network. If the network is hidden, click on "Custom SSID" and enter the two parameters requested.



8. Click on "Connect" to connect the appliance to the selected Wi-Fi network.



9. Within "Menu 08 – WIFI STATUS" of the remote control, check that value "08" (Module connected) appears under "WIFI STATUS".



10. At this point, the device you have purchased will be stably connected to the Internet.

Open the current browser of the device (PC / tablet / smartphone) and enter the following address in the address bar: https://appwifi.klover.it/it/login/.

The page of the "My Klover" Web app will open up; click on the "Register" section in the main menu.

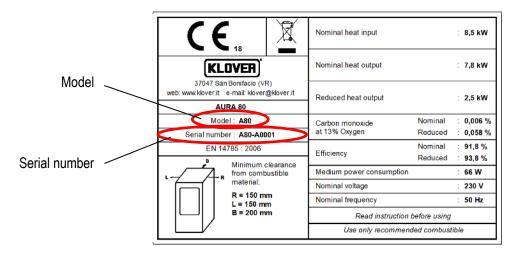
After completing the registration, you will receive a confirmation e-mail in your mailbox.

The registration can be made from the "My Klover" app, which can be downloaded to smartphones, tablets or PCs from various stores (Apple, Android, etc.).

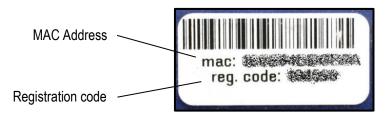
11. Return to the home page of the "My Klover" app and access your account by entering the credentials (e-mail address and password) previously used for the registration phase. You can now add a new appliance by clicking in the "Add stove" section of the main menu.

The following information will be requested during the procedure:

- ITEM CODE (Model) and SERIAL NUMBER, which can be found on the CE label affixed to the appliance.



- MAC ADDRESS and REGISTRATION CODE, which appear on the label affixed near the "Support panel" (see "Components of the appliance").



12. At this point, the appliance will be added and can be managed through the Web app from any device (PC / tablet / smartphone) connected to the Internet.

It can be accessed from the address http://appwifi.klover.it/it/ or via the "My KLOVER" app, which can be downloaded from various stores (Apple, Android, etc).

START-UP

Initial start-up

Perform the following operations:

- Connect the appliance to the electrical system by using the provided cable;
- Set the "power ON/OFF switch" on the rear side of the appliance to "I" (on);
- Fill the pellet tank; for the initial start-up, to avoid wasting the time required to fill the entire auger channel (this should be done whenever the appliance runs out of pellets), we recommend following the instructions of "MENU 06 INITIAL LOAD":
- Switch the appliance on by pressing the "ON/OFF" button located on remote control (button 3) or on the support panel (button 1). See the instructions below. **Warning: before switching on the appliance, make sure the brazier** is clean and that there are no pellets inside it; otherwise, empty and/or clean it.

We recommend that you use high quality pellets so as not to impair the operation of the appliance. Damage caused by poor-quality pellets shall not be covered by the warranty.

Do not pour pellets manually into the brazier.

Ignition cycle

Prolonged pressing of button 3 (On/Off) on the remote control or of button 1 (On/Off) on the support panel allows for switching the appliance on.

The ignition cycle can last 20/25 minutes max. and is divided into five steps:

Phase	Display message	Meaning	Duration
1	CHECK UP	Brazier cleaning cycle	Roughly 30 seconds
2	LOAD PELLET	Pre-loading of the brazier with pellets (continuous pellet loading) to fill the brazier sufficiently to allow correct ignition	
3	FLAME STAND-BY	Stand-by for flame ignition after pre-loading (pellet loading suspended)	Roughly 4 minutes
4	FLAME STAND-BY / LOAD PELLET Loading of pellets into the brazier (intermittent pellet loading)		Not ascertainable
5	FLAME LIGHT	Flame stabilisation to allow uniform ignition of all pellets that were not burned in the previous phases	Roughly 8 minutes

At the end of the ignition cycle, the appliance enters the work mode at the power set under "SET OUTPUT".

If the ignition fails, the display will show the "FAILED IGNITION" alarm.

The alarm may also occur if the brazier is dirty; in this case, clean the brazier and re-start.

Warning: during the ignition phase and normal operation of the appliance, maintain the necessary safety distance and do not stand in front of it.

Working mode

During the normal work phase, pressing button 1 (Increase) allows for setting the "SET ROOM" (room temperature setpoint) at which the appliance enters the "MODULATION" economy mode, provided that all the other room thermostats or probes (if any) have been fulfilled (also refer to "Connection to the room thermostat or to a supplementary room probe").

- With "Menu 01-STAND-BY" <u>enabled</u>, the appliance switches off automatically by entering the "OK ST-BY" status after the time set in Pr44 (default setting 10 minutes); after the switch-off phase, it will switch back on automatically if the room temperature falls below the temperature delta set at Pr43 (default setting 1°C), or room temperature < ("SET ROOM" Pr43).
- With "Menu 01-STAND-BY" <u>not enabled</u>, the appliance enters the "MODULATION" mode once the set room temperature is reached, but will not switch off automatically.

If the above condition occurs when the switch-off cycle is not yet completed, please wait until the cycle terminates. The cleaning cycle of the brazier (displayed under "BRAZIER CLEANING") is done at predetermined time intervals for an established period (see "PCB parameters").

Switch-off cycle

Pressing button 3 (On/Off) on the remote control or button 1 (On/Off) on the support panel switches the appliance off. The display will show "FINAL CLEANING". Pellet loading stops and the flue gas extractor speed increases to maximum and then switches off once the appliance has cooled, with "OFF" appearing on the display. In addition, during this phase the brazier is cleaned and emptied.

Modifying the main room temperature set-point

- To modify the room temperature, simply select "SET ROOM" by pressing button 1 (Increase).
- Press buttons 1 and 2 (Increase and Decrease) to modify the value and confirm with button 4 (Set) or 5 (Esc); it is possible to set a value between 7°C and 40°C.
- By pressing button 3 (On/Off) or waiting a few seconds without confirming, the set value is not saved.

During this operation, the display will appear as shown below:



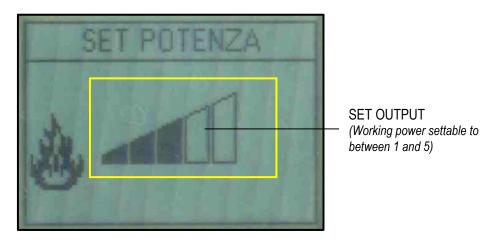
SET ROOM (Main room temperature set-point of zone 1, settable to between 7°C and 40°C)

During the work phase, the appliance enters the "MODULATION" economy mode when this temperature value is reached (see "Work phase").

Modifying the power set-point

- To modify the working power, simply select "SET OUTPUT" by pressing button 2 (Decrease).
- Press buttons 1 and 2 (Increase and Decrease) to modify the value and confirm with button 4 (Set) or 5 (Esc); it is possible to set a power value between 1 and 5.
- By pressing button 3 (On/Off) or waiting a few seconds without confirming, the set value is not saved.

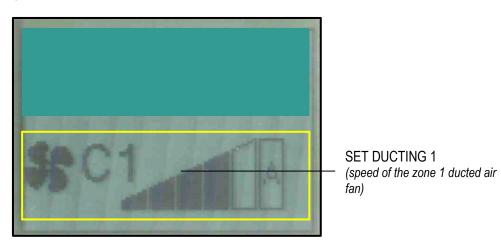
During this operation, the display will appear as shown below:



Modifying the ducted air speed set-point

- To modify the speed of the ducted air fans (1 or 2, depending on the specific model), simply select "SET DUCTING" by pressing button 5 (Esc).
- Press button 2 (Decrease) to modify the value associated with the zone 1 ducted air fan and confirm with button 4 (Set) or 5 (Esc); it is possible to manually set a speed value between 1 and 5, or an automatic speed (A) associated with the value set under "SET OUTPUT" (see "Modifying the power set-point").
- By pressing button 3 (On/Off) or waiting a few seconds without confirming, the set value is not saved.

During this operation, the display will appear as shown below:



Modifying the temperature set-points of the ducted rooms

Consult the information in the "THE MENU" chapter under the paragraph "Menu 12 – Set Room Duct.".

PROBLEMS, ALARMS, USEFUL TIPS

Useful info...

Listed below is some important information regarding the appliance:

- It is normal for the appliance to emit a smell of paint during its first few days of operation. We recommend ventilating the installation room thoroughly during the initial start-up. During the first few days of operation, we also recommend running the appliance at high power.
- The boiler unit is treated with anti-oxidant paint in order to protect it against oxidation in the event of long periods of inactivity. After initial start-up, this paint no longer preserves its original features and any wear of the paint inside the combustion chamber should not be regarded as a manufacturing fault.
- Do not clean with water inside the combustion chamber; any oxidation of the combustion chamber after a long period of inactivity is not to be considered as a manufacturing fault.
- Any perceived noise during operation may be caused by the expansion settling of the plates that make up the boiler unit. These noises are accentuated especially during ignition and switching off phases of the appliance and are not to be considered a manufacturing fault.
- If the ignition fails, take the pellets out of the brazier; a new ignition phase can only be attempted, once all the unburned pellets have been removed.
- Any perceived smell of smoke (especially during the ignition phase) should not be regarded as a manufacturing defect.
- The appliance works exclusively with wooden pellets; do not burn different fuels.
- The noise level of the appliance is emphasised if the pellet container is empty. Therefore we recommend that you always keep the pellet level to at least half tank.
- If there is soot and fine particulate in the room where the appliance is installed, check the seal on the flue gas pipes and the filter of the ash vacuum device used for cleaning.

What happens if...

...the pellets do not ignite

If the ignition fails, the display will show the alarm message "FAILED IGNITION".

Cancel the alarm and restore the appliance to its standard condition by pressing button 3 (On/Off) for a few seconds. If the ignition fails, take the pellets out of the brazier; only once all the unburned pellets have been removed can a new ignition phase be attempted.

...the fire door is open or not properly closed

If the door is left open or not properly closed, the pellet loading will not start, therefore the appliance will not switch itself on. If the fire door is opened during normal operation, the appliance will enter the "THERMAL SAFETY" alarm mode.

...the pellet tank cover is open or not properly closed

If the pellet tank cover is left open or not properly closed, pellet loading will not start and the appliance will not switch on. If the cover is opened during normal operation, the appliance will enter the "NO DEPRESSURE" alarm mode.

...the flue pipe is dirty, blocked or not correctly installed

If the flue is dirty, blocked or incorrectly manufactured, pellet loading will not start, thus the appliance will not switch itself on. If the flue pipe is obstructed during normal operation, the appliance will enter the "NO DEPRESSURE" alarm mode.

...the pellet tank overheats

If the pellet tank overheats (>85°C), the pellet will not be loaded because the manual reset thermostat intervenes. If this occurs during normal operation, the appliance will enter the "THERMAL SAFETY" alarm mode. It is therefore necessary to reset the "manual reset safety thermostat" (refer to "Components of the appliance") before switching the appliance on again. To reset, it is necessary to remove the black cap and press the button below.

...lack of power (blackout)

If a power blackout occurs for a shorter time than Pr48, when power is restored, the appliance will immediately re-start in the working mode (recovering the set working power).

If the outage lasts longer than Pr48, when power is restored the appliance will enter the "CLEANER STAND-BY" mode and run the entire switch-off and cleaning cycle until the appliance cools. When this phase is over, the appliance can be restarted resuming work at the set power.

Previous state	Black-out duration	State after power restore
OFF	any	OFF
CHECK UP	any	CHECK UP
LOAD PELLET	any	BLACK OUT ALARM
FLAME STAND-BY	any	BLACK OUT ALARM
FLAME STAND-BY / LOAD PELLET	any	BLACK OUT ALARM
FLAME LIGHT	Duration < Pr48	FLAME LIGHT
FLAME LIGHT	Duration > Pr48	CLEANER STAND-BY with automatic re-ignition after machine cooling
WORK (any phase)	Duration < Pr48	WORK (any phase)
WORK (any phase)	Duration > Pr48	CLEANER STAND-BY with automatic re-ignition after machine cooling
BRAZIER CLEANING	Duration < Pr48	BRAZIER CLEANING
BRAZIER CLEANING	Duration > Pr48	CLEANER STAND-BY with automatic re-ignition after machine cooling
FINAL CLEANING	Any	FINAL CLEANING and after cooling OFF
STAND-BY	any	STAND-BY

Alarm signals

The following table describes the different alarms which may appear.

DISPLAY VISUALISATION	ORIGIN OF ALARM
AL. 01 – BLACK OUT	Black-out alarm. When power is cut off under determined conditions (see "What happens if")
AL. 02 – SMOKE TEMP.	Faulty or disconnected flue gas temperature probe.
AL. 03 – REG.ENCODER	This occurs when the speed of the smoke extractor does not correspond to the set speed.
AL. 04 – NO ENCODER	Flue gas extractor or flue gas extractor encoder faulty. This occurs when the (tachometer) encoder in the extractor detects an extractor speed equal to 0.
AL. 05 – FAILED IGNITION	No ignition. This occurs when the minimum temperature in the combustion chamber (Pr13) is not reached within the maximum ignition cycle time (Pr01).
AL. 06 – CHECK PELLETS	Sudden shut-down during the work phase. This occurs when the temperature in the combustion chamber drops below the minimum threshold (Pr13) during the work phase.
AL. 07 – THERMAL SAFETY	Temperature safety device. This occurs when the safety thermostat cuts in (pellet tank overheating) or when the fire door is open or not correctly closed. If the safety thermostat intervenes, it needs to be reset manually (refer to "Components of the appliance").
AL. 08 – NO DEPRESSURE	Poor depression. This occurs when the flue gas pressure switch cuts in due to poor draught in the flue pipe or when the pellet tank cover is open.
AL. 10 – LOAD ALARM	This occurs when there is continuous loading of pellets (the auger gearmotor does not stop for at least 0.2 seconds during the maximum work interval of 8.0 seconds). Before the alarm is activated a safety relay cuts in and forcibly cuts off the power supply to the gear motor.
AL. 11 – INSUFF. DRAUGHT	This occurs when the measured combustion air flow is below the set threshold. NOT APPLICABLE TO THIS PRODUCT.
AL. 12 – CLEANER FAULT	This occurs when the brazier is not correctly aligned during the cleaning phase (initial or during shut-down).

Every alarm causes the appliance to switch-off immediately. The alarm status is reached after the time set on Pr11 (set by default to 90 sec) and can be reset by pressing and holding button 3. In case of anomalies, contact the *Klover authorised Technical Assistance Centre*.

CLEANING AND MAINTENANCE

Precautions before cleaning

Before carrying out any cleaning or maintenance operations, make sure that:

- the appliance is off and has cooled down completely;
- the ash is completely cold.
- the ash vacuum device used for cleaning is suitable and its filter is in good condition.

Before re-starting the appliance, re-install all previously removed components.

During cleaning operations, use the personal protection devices specified in Directive 89/391/EEC.

The required cleaning frequency depends on the type and quality of the pellets used. The times indicated below may therefore vary.

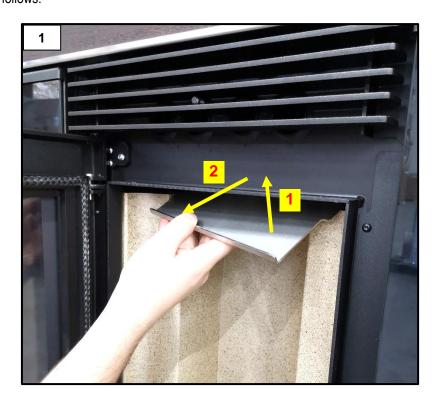
Any problem affecting the appliance caused by lack of cleaning will not be covered by the warranty. The failure of these operations could affect the safety of the product.

Cleaning operations may be carried out by the end user, as indicated in the paragraph below.

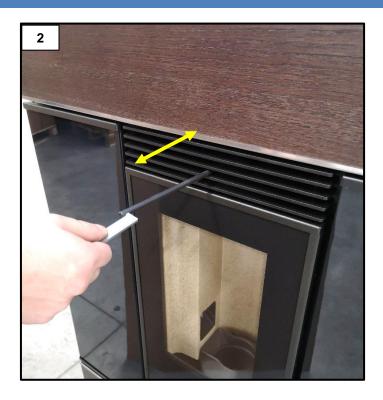
Routine cleaning

The ordinary cleaning of the appliance must be done at least every 30 hours of operation or after 6-8 ignition cycles, so as to always guarantee efficient performance and optimal operation.

Please proceed as follows:



Remove the flame separator as shown in the picture (figure 1).



Use the appropriate *cleaning hook for the front scraper* to pull out the front rod and then move it forward and backwards to clean off combustion residues from the air exchanger (Figure 2).





Remove the brazier covering ring and the grille then eliminate the combustion residues (Figure 3). Use a suitable ash vacuum device to vacuum the ash deposited inside the brazier and outside of it (figure 4).

WARNING: use suitable ash vacuum devices equipped with a fine-mesh filter in order to prevent ash from being blown into the room and damage being done to the vacuum cleaner. We do not recommend the use of normal vacuum cleaners.



Empty the ash box (Figure 5).

Non-routine cleaning

The extraordinary cleaning of the appliance must be done at least every 30 days so as to always guarantee efficient performance and optimal operation.

Please proceed as follows:

Perform routine cleaning;





After the top has been removed (figure 6), remove the two indicated *inspection ports of the right and left side flue gas*passages

highlighted in the photo (Figure 7).



Clean the right and left side flue gas passages using a brush (figure 8).



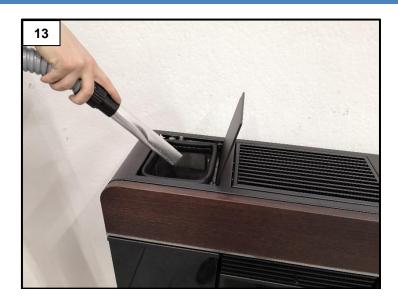


Remove the *inspection port of the lower flue gas passage* by undoing the two screws (figure 9). After removing the cover, vacuum the residues inside the inspected compartment (Figure 10).





Remove the *inspection port of the extractor flue gas passage* by undoing the two screws (figure 11). After removing the cover, vacuum the residues inside the inspected compartment (Figure 12).



To ensure correct operation, it is necessary to remove the sawdust deposited on the bottom of the tank (Figure 13) at least once every 30 days. The pellet tank must be emptied at the end of every season.

Cleaning the vermiculite components

The vermiculite panels do not require any special maintenance. If necessary, they must be dusted gently using a brush only. To avoid jeopardising their durability, they <u>must not</u> be cleaned using abrasive sponges, wet cloths or the tube of the ash vacuum device placed directly in contact with it.









To remove the vermiculite panels, you must remove the flame separator (figure 14), then remove the central panel (figure 15) and then the side ones (figures 16 and 17).

ATTENTION: handle the vermiculite panels very carefully as they do not withstand impacts.

Cleaning the ceramic glass

Always clean the glass when the appliance is off and has cooled down completely. Use a damp cloth or a detergent specifically formulated for ceramic glass. Do not use abrasive sponges. Do not clean the glass if still warm; changes in temperature can lead to breakage.

Cleaning the flue

The flue must be cleaned at least once a year, at the beginning of winter, and whenever it becomes necessary.

It is important to check for any obstructions in the flue before switching the appliance on following long periods of inactivity.

If the flue is not cleaned, the operation of the appliance and its components may be compromised.

The cleaning frequency of the appliance and flue depends on the quality of the pellets used.

USE TOP QUALITY PELLETS TO OBTAIN THE BEST RESULTS.

Maintenance

Timely and systematic maintenance is essential for guaranteeing correct operation, optimal heat performance and durability of the device. Therefore, qualified staff should check the appliance at least once a year at the beginning of the season.

You must periodically check the seals because the latter guarantee the air- and water-tightness of the appliance and its good functioning; if they are worn or damaged you need to be replace them immediately by contacting a *Klover Authorised technical assistance centre.*

For proper operation, the appliance must undergo routine maintenance performed by a Klover *Authorised technical assistance centre* at least once a year.

PCB PARAMETERS

The parameters stored on the PCB are essential for the correct operation.

The following parameters are already stored during the testing of the appliance directly in the factory; these parameters are the result of special tests using several types of pellets and must not be changed without the authorisation of Klover srl so as not to impair the operation of the appliance.

The company shall not be held liable for any damage caused by the incorrect entry of parameters.

Parameter tables DIVA SLIM AIR

"CLEANER S	"CLEANER SETTINGS" parameters - Model DSA (L15_181119)							
Parameter	Menu level	Description	Display	Measurement	Value field	Database P1		
Pr51	M10 – 01 – 01	ON time for brazier cleaning gear motor	CLEANING TIME	Seconds	0 – 120"	13		
Pr52	M10 – 01 – 02	Time from switching off after which the brazier cleaning cycle starts	CLEANER DELAY	Minutes	1 – 15	6		
Pr53	M10 - 01 - 03	Time from switching on after which the brazier cleaning cycle starts	CLEANER STAND-BY	Hours	1 – 24	9		

"DUCTING SI	"DUCTING SETTINGS" parameters - Model DSA (L15_181119)							
Parameter	Menu level	Description	Display	Measurement	Value field	Database P1		
Pr55	M10 – 03 – 01	Enables ducting operation	ENABLE DUCT.	Off / Mode	Off S1 – S2 – S1+2 T1 – T2 – T1+2 A1 – A2 – A1+2	Off		
Pr56	M10 – 03 – 02	Allows for choosing whether the ducted air fans can be switched "OFF".	DUCTED OFF	On – Off	On – Off	Off		
Pr57	M10 – 03 – 03	Heat exchanger 2 (ducting 1) in power 1 work phase	DUCT.1 SPEED-S1	Volt	65 – 225	65		
Pr58	M10 – 03 – 04	Heat exchanger 2 (ducting 1) speed in power 2 work phase	DUCT.1 SPEED-S2	Volt	65 – 225	65		
Pr59	M10 – 03 – 05	Heat exchanger 2 (ducting 1) in power 3 work phase	DUCT.1 SPEED-S3	Volt	65 – 225	65		
Pr60	M10 – 03 – 06	Heat exchanger 2 (ducting 1) in power 4 work phase	DUCT.1 SPEED-S4	Volt	65 – 225	65		
Pr61	M10 – 03 – 07	Heat exchanger 2 (ducting 1) in power 5 work phase	DUCT.1 SPEED-S5	Volt	65 – 225	65		
Pr62	M10 – 03 – 08	Heat exchanger 3 (ducting 2) in power 1 work phase	DUCT.2 SPEED-S1	Volt	65 – 225	65		
Pr63	M10 – 03 – 09	Heat exchanger 3 (ducting 2) in power 2 work phase	DUCT.2 SPEED-S2	Volt	65 – 225	65		
Pr64	M10 – 03 – 10	Heat exchanger 3 (ducting 2) in power 3 work phase	DUCT.2 SPEED-S3	Volt	65 – 225	65		
Pr65	M10 – 03 – 11	Heat exchanger 3 (ducting 2) in power 4 work phase	DUCT.2 SPEED-S4	Volt	65 – 225	65		
Pr66	M10 – 03 – 12	Heat exchanger 3 (ducting 2) in power 5 work phase	DUCT.2 SPEED-S5	Volt	65 – 225	65		

Parameters "VARIOUS SETTINGS" - Mod. DSA (L15_181119)						
Parameter	Menu level	Description	Display	Measurement	Value field	Database P1
Pr38	M10 – 04 – 01	Re-ignition block	RESTART BLOCK	Minutes	0 – 10	5
Pr39	M10 - 04 - 02	Time for considering the device off	OFF TIME	Minutes	0 – 20	10
Pr40	M10 - 04 - 03	Pre-loading time in ignition	PRE-LOAD START	Seconds	0 – 255	210
Pr41	M10 – 04 – 04	Stand-by time after pre-loading	AFTER PRE-LOAD	Seconds	0 – 255	120
Pr42	M10 – 04 – 05	Extractor speed in pre-loading phase	PRE-LOAD SMOKE SPEED	Rpm	350 – 2800	2100
Pr43	M10 – 04 – 06	Temperature delta on "SET ROOM" for automatic switching on/off	DELTA ON-OFF	°C	0.0 – 10.0	1.0
Pr44	M10 – 04 – 07	Automatic switch-off delay (timer after reaching "SET ROOM")	AUTO OFF DELAY	Minutes	2 – 120	10
Pr45	M10 – 04 – 08	Power change delay	POWER CHANGE	Seconds	0 – 240	60
Pr46	M10 – 04 – 09	Heat exchanger 1 speed (primary) in the switch-off phase	AIR SPEED OFF	Volt	65 – 225	225
Pr47	M10 – 04 – 10	Keypad lock enable	KEY LOCK	On – Off	On – Off	Off
Pr48	M10 – 04 – 11	Time after which an alarm is triggered in the event of a blackout	BLACK OUT TIME	Seconds	0 – 60	30
Pr49	M10 – 04 – 12	Time after which the "NO PELLET" alarm triggers In case of "PELLET RESERVE"	RESERVE ALARM	Minutes	1 – 180	60
Pr50	M10 – 04 – 13	Enabling of the pellet level sensor (only on configured models)	PELLET RESERVE	On – Off	On – Off	Off

DIVA SLIM AIR PELLET STOVE

Parameters "DEFAULT SETTINGS" - Mod. DSA (L15_181119)						
Parameter	Menu level	Description	Display	Measurement	Value field	Database P1
Pr01	M10 – 05 – 01	Ignition cycle maximum time	START TIME	Minutes	5 – 25	18
Pr02	M10 – 05 – 02	Time for flame stabilisation after ignition	FL. LIGHT TIME	Minutes	0 – 15	8
Pr03	M10 – 05 – 03	Time interval between the two brazier cleaning operations	CADENCE CLEANING	Minutes	3 – 240	60
Pr04	M10 – 05 – 04	Screw feeder gear motor ON time in ignition phase	SCREW FEEDER START	Seconds	0.1 – 8.0	1.6
Pr05	M10 – 05 – 05	Screw feeder gear motor ON time during the stabilisation phase	AUGER FL. LIGHT	Seconds	0.1 – 8.0	1.8
Pr06	M10 – 05 – 06	Screw feeder gear motor ON time in power 1 work phase	SCREW FEEDER POWER 1	Seconds	0.1 – 8.0	2.4
Pr07	M10 – 05 – 07	Screw feeder gear motor ON time in power 2 work phase	SCREW FEEDER POWER 2	Seconds	0.1 – 8.0	3.0
Pr08	M10 – 05 – 08	Screw feeder gear motor ON time in power 3 work phase	SCREW FEEDER POWER 3	Seconds	0.1 – 8.0	3.8
Pr09	M10 – 05 – 09	Screw feeder gear motor ON time in power 4 work phase	SCREW FEEDER POWER 4	Seconds	0.1 – 8.0	4.5
Pr10	M10 – 05 – 10	Screw feeder gear motor ON time in power 5 work phase	SCREW FEEDER POWER 5	Seconds	0.1 – 8.0	5.2
Pr11	M10 – 05 – 11	Time after which the alarm is signalled following an anomaly	ALARMS DELAY	Seconds	0 – 120	90
Pr12	M10 – 05 – 12	Brazier cleaning duration	CLEANING DURATION	Seconds	0 – 120	60
Pr13	M10 – 05 – 13	Minimum temperature of the combustion chamber in order to consider the appliance on	MINIMUM THRESHOLD	°C	70 – 280	170
Pr14	M10 – 05 – 14	Maximum temperature of the combustion chamber	MAXIMUM THRESHOLD	°C	200 – 880	800
Pr15	M10 – 05 – 15	Combustion chamber temperature threshold for starting the air exchangers	BLOWER THRESHOLD	°C	100 – 720	160
Pr16	M10 – 05 – 16	Flue gas extraction speed in ignition phase	SMOKE SP. START	Rpm	500 – 2800	2000
Pr17	M10 – 05 – 17	Flue gas extraction speed in start phase	SMOKE SP. FL. LIGHT	Rpm	500 – 2800	2000
Pr18	M10 – 05 – 18	Flue gas extraction speed in power 1 work phase	SMOKE SPEED P1	Rpm	500 – 2800	1450
Pr19	M10 – 05 – 19	Flue gas extraction speed in power 2 work phase	SMOKE SPEED P2	Rpm	500 – 2800	1550
Pr20	M10 – 05 – 20	Flue gas extraction speed in power 3 work phase	SMOKE SPEED P3	Rpm	500 – 2800	1700
Pr21	M10 – 05 – 21	Flue gas extraction speed in power 4 work phase	SMOKE SPEED P4	Rpm	500 – 2800	1850
Pr22	M10 – 05 – 22	Flue gas extraction speed in power 5 work phase	SMOKE SPEED P5	Rpm	500 – 2800	1950
Pr23	M10 – 05 – 23	Heat exchanger 1 (primary) speed in power 1 work phase	AIR SPEED P.1	Volt	65 – 225	185
Pr24	M10 – 05 – 24	Heat exchanger 1 (primary) speed in power 2 work phase	AIR SPEED P.2	Volt	65 – 225	190
Pr25	M10 – 05 – 25	Heat exchanger 1 (primary) speed in power 3 work phase	AIR SPEED P.3	Volt	65 – 225	200
Pr26	M10 – 05 – 26	Heat exchanger 1 (primary) speed in power 4 work phase	AIR SPEED P.4	Volt	65 – 225	210
Pr27	M10 – 05 – 27	Heat exchanger 1 (primary) speed in power 5 work phase	AIR SPEED P.5	Volt	65 – 225	225
Pr28	M10 – 05 – 28	Combustion chamber temperature threshold for considering the device off	THRESHOLD OFF	°C	50 – 250	160
Pr29	M10 – 05 – 29	Flue gas extraction speed in brazier cleaning phase	SMOKE SP. CLEANING	Rpm	700 – 2800	2800
Pr30	M10 – 05 – 30	Screw feeder gear motor ON time in cleaning phase	SCREW FEEDER CLEANING	Seconds	0.0 - 8.0	1.0
Pr31	M10 – 05 – 31	Enabling of a primary room temperature probe connected to the board	MOTHERBOARD PROBE	On – Off	On – Off	Off
Pr32	M10 – 05 – 32	Preheating time	PREHEAT TIME	Seconds	0 – 250	0
Pr33	M10 – 05 – 33	PELLET CRUISE CONTROL modulation threshold	CRUISE THRESHOLD	°C	120 – 880	428
Pr34	M10 – 05 – 34	Temperature delta on PELLET CRUISE CONTROL modulation threshold	CRUISE DELTA	°C	20 – 60	40
Pr35	M10 – 05 – 35	PELLET CRUISE CONTROL modulation time	CRUISE TIME	Minutes	1 – 10	3
Pr36	M10 – 05 – 36	Time after which the intervention of the Technical Assistance Centre is requested	SERVICE HOURS	Hours	Off 260 – 2800	2000

"RELAX SET	"RELAX SETTINGS" parameters - Model DSA (L15_181119)							
Parameter	Menu level	Description	Display	Measurement	Value field	Database P1		
Pr150	M10 – 10 – 01	Heat exchanger 1 (primary) speed during the work phase with "RELAX FUNCTION" enabled	RELAX AIR SPEED	Volt	Off 65 – 225	Off		
Pr151	M10 – 10 – 02	"RELAX FUNCTION" activation time	RELAX TIME	Minutes	30 – 254 On	30		

Parameter tables DIVA SLIM MULTI-AIR

"CLEANER S	"CLEANER SETTINGS" parameters - Model DSC (L15_181119)							
Parameter	Menu level	Measurement	Value field	Database P2				
Pr51	M10 – 01 – 01	ON time for brazier cleaning gear motor	CLEANING TIME	Seconds	0 – 120"	13		
Pr52	M10 – 01 – 02	Time from switching off after which the brazier cleaning cycle starts	CLEANER DELAY	Minutes	1 – 15	6		
Pr53	M10 – 01 – 03	Time from switching on after which the brazier cleaning cycle starts	CLEANER STAND-BY	Hours	1 – 24	9		

"DUCTING SE	"DUCTING SETTINGS" parameters - Model DSC (L15_181119)							
Parameter	Menu level	Description	Display	Measurement	Value field	Database P2		
Pr55	M10 – 03 – 01	Enables ducting operation	ENABLE DUCT.	Off / Mode	Off S1 – S2 – S1+2 T1 – T2 – T1+2 A1 – A2 – A1+2	A 1		
Pr56	M10 - 03 - 02	Allows for choosing whether the ducted air fans can be switched "OFF".	DUCTED OFF	On – Off	On – Off	Off		
Pr57	M10 - 03 - 03	Heat exchanger 2 (ducting 1) in power 1 work phase	DUCT.1 SPEED-S1	Volt	65 – 225	165		
Pr58	M10 - 03 - 04	Heat exchanger 2 (ducting 1) speed in power 2 work phase	DUCT.1 SPEED-S2	Volt	65 – 225	175		
Pr59	M10 – 03 – 05	Heat exchanger 2 (ducting 1) in power 3 work phase	DUCT.1 SPEED-S3	Volt	65 – 225	190		
Pr60	M10 - 03 - 06	Heat exchanger 2 (ducting 1) in power 4 work phase	DUCT.1 SPEED-S4	Volt	65 – 225	220		
Pr61	M10 – 03 – 07	Heat exchanger 2 (ducting 1) in power 5 work phase	DUCT.1 SPEED-S5	Volt	65 – 225	225		
Pr62	M10 – 03 – 08	Heat exchanger 3 (ducting 2) in power 1 work phase	DUCT.2 SPEED-S1	Volt	65 – 225	65		
Pr63	M10 - 03 - 09	Heat exchanger 3 (ducting 2) in power 2 work phase	DUCT.2 SPEED-S2	Volt	65 – 225	65		
Pr64	M10 – 03 – 10	Heat exchanger 3 (ducting 2) in power 3 work phase	DUCT.2 SPEED-S3	Volt	65 – 225	65		
Pr65	M10 – 03 – 11	Heat exchanger 3 (ducting 2) in power 4 work phase	DUCT.2 SPEED-S4	Volt	65 – 225	65		
Pr66	M10 – 03 – 12	Heat exchanger 3 (ducting 2) in power 5 work phase	DUCT.2 SPEED-S5	Volt	65 – 225	65		

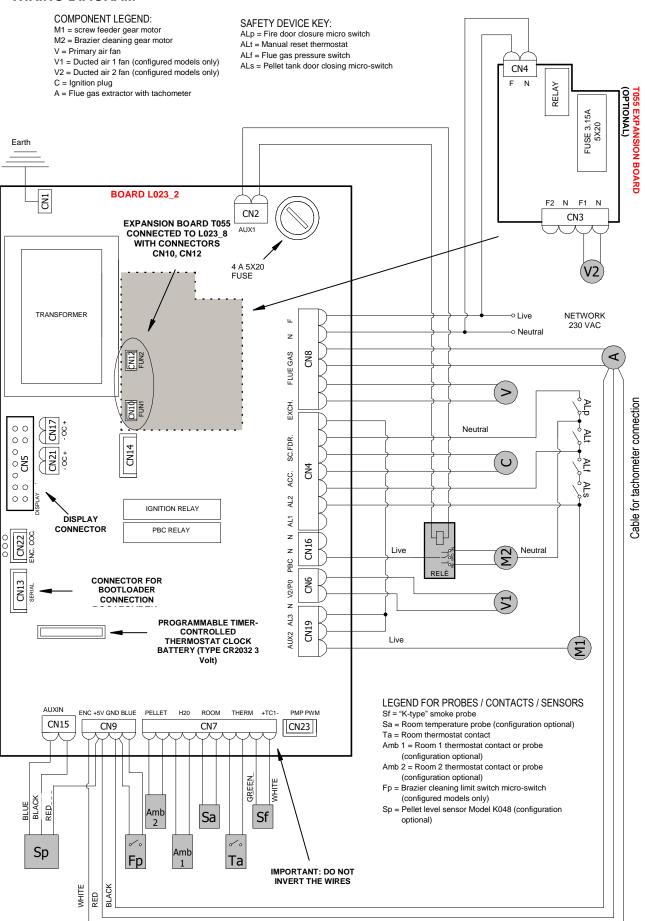
Parameters "	Parameters "VARIOUS SETTINGS" - Mod. DSC (L15_181119)						
Parameter	Menu level	Description	Display	Measurement	Value field	Database P2	
Pr38	M10 – 04 – 01	Re-ignition block	RESTART BLOCK	Minutes	0 – 10	5	
Pr39	M10 - 04 - 02	Time for considering the device off	OFF TIME	Minutes	0 – 20	10	
Pr40	M10 - 04 - 03	Pre-loading time in ignition	PRE-LOAD START	Seconds	0 – 255	210	
Pr41	M10 – 04 – 04	Stand-by time after pre-loading	AFTER PRE-LOAD	Seconds	0 – 255	120	
Pr42	M10 – 04 – 05	Extractor speed in pre-loading phase	PRE-LOAD SMOKE SPEED	Rpm	350 – 2800	2100	
Pr43	M10 – 04 – 06	Temperature delta on "SET ROOM" for automatic switching on/off	DELTA ON-OFF	°C	0.0 – 10.0	1.0	
Pr44	M10 – 04 – 07	Automatic switch-off delay (timer after reaching "SET ROOM")	AUTO OFF DELAY	Minutes	2 – 120	10	
Pr45	M10 – 04 – 08	Power change delay	POWER CHANGE	Seconds	0 – 240	60	
Pr46	M10 – 04 – 09	Heat exchanger 1 speed (primary) in the switch-off phase	AIR SPEED OFF	Volt	65 – 225	225	
Pr47	M10 – 04 – 10	Keypad lock enable	KEY LOCK	On – Off	On – Off	Off	
Pr48	M10 – 04 – 11	Time after which an alarm is triggered in the event of a blackout	BLACK OUT TIME	Seconds	0 – 60	30	
Pr49	M10 – 04 – 12	Time after which the "NO PELLET" alarm triggers In case of "PELLET RESERVE"	RESERVE ALARM	Minutes	1 – 180	60	
Pr50	M10 – 04 – 13	Enabling of the pellet level sensor (only on configured models)	PELLET RESERVE	On – Off	On – Off	Off	

DIVA SLIM AIR PELLET STOVE

Parameters "DEFAULT SETTINGS" - Mod. DSC (L15_181119)						
Parameter	Menu level	Description	Display	Measurement	Value field	Database P2
Pr01	M10 – 05 – 01	Ignition cycle maximum time	START TIME	Minutes	5 – 25	18
Pr02	M10 – 05 – 02	Time for flame stabilisation after ignition	FL. LIGHT TIME	Minutes	0 – 15	8
Pr03	M10 – 05 – 03	Time interval between the two brazier cleaning operations	CADENCE CLEANING	Minutes	3 – 240	60
Pr04	M10 – 05 – 04	Screw feeder gear motor ON time in ignition phase	SCREW FEEDER START	Seconds	0.1 – 8.0	1.6
Pr05	M10 – 05 – 05	Screw feeder gear motor ON time during the stabilisation phase	AUGER FL. LIGHT	Seconds	0.1 – 8.0	1.8
Pr06	M10 – 05 – 06	Screw feeder gear motor ON time in power 1 work phase	SCREW FEEDER POWER 1	Seconds	0.1 – 8.0	2.4
Pr07	M10 – 05 – 07	Screw feeder gear motor ON time in power 2 work phase	SCREW FEEDER POWER 2	Seconds	0.1 – 8.0	3.0
Pr08	M10 – 05 – 08	Screw feeder gear motor ON time in power 3 work phase	SCREW FEEDER POWER 3	Seconds	0.1 – 8.0	3.8
Pr09	M10 – 05 – 09	Screw feeder gear motor ON time in power 4 work phase	SCREW FEEDER POWER 4	Seconds	0.1 – 8.0	4.5
Pr10	M10 – 05 – 10	Screw feeder gear motor ON time in power 5 work phase	SCREW FEEDER POWER 5	Seconds	0.1 – 8.0	5.2
Pr11	M10 – 05 – 11	Time after which the alarm is signalled following an anomaly	ALARMS DELAY	Seconds	0 – 120	90
Pr12	M10 – 05 – 12	Brazier cleaning duration	CLEANING DURATION	Seconds	0 – 120	60
Pr13	M10 – 05 – 13	Minimum temperature of the combustion chamber in order to consider the appliance on	MINIMUM THRESHOLD	°C	70 – 280	170
Pr14	M10 – 05 – 14	Maximum temperature of the combustion chamber	MAXIMUM THRESHOLD	°C	200 – 880	800
Pr15	M10 – 05 – 15	Combustion chamber temperature threshold for starting the air exchangers	BLOWER THRESHOLD	°C	100 – 720	160
Pr16	M10 – 05 – 16	Flue gas extraction speed in ignition phase	SMOKE SP. START	Rpm	500 – 2800	2000
Pr17	M10 – 05 – 17	Flue gas extraction speed in start phase	SMOKE SP. FL. LIGHT	Rpm	500 – 2800	2000
Pr18	M10 – 05 – 18	Flue gas extraction speed in power 1 work phase	SMOKE SPEED P1	Rpm	500 – 2800	1450
Pr19	M10 – 05 – 19	Flue gas extraction speed in power 2 work phase	SMOKE SPEED P2	Rpm	500 – 2800	1550
Pr20	M10 – 05 – 20	Flue gas extraction speed in power 3 work phase	SMOKE SPEED P3	Rpm	500 – 2800	1700
Pr21	M10 – 05 – 21	Flue gas extraction speed in power 4 work phase	SMOKE SPEED P4	Rpm	500 – 2800	1850
Pr22	M10 – 05 – 22	Flue gas extraction speed in power 5 work phase	SMOKE SPEED P5	Rpm	500 – 2800	1950
Pr23	M10 – 05 – 23	Heat exchanger 1 (primary) speed in power 1 work phase	AIR SPEED P.1	Volt	65 – 225	185
Pr24	M10 – 05 – 24	Heat exchanger 1 (primary) speed in power 2 work phase	AIR SPEED P.2	Volt	65 – 225	190
Pr25	M10 – 05 – 25	Heat exchanger 1 (primary) speed in power 3 work phase	AIR SPEED P.3	Volt	65 – 225	200
Pr26	M10 – 05 – 26	Heat exchanger 1 (primary) speed in power 4 work phase	AIR SPEED P.4	Volt	65 – 225	210
Pr27	M10 – 05 – 27	Heat exchanger 1 (primary) speed in power 5 work phase	AIR SPEED P.5	Volt	65 – 225	225
Pr28	M10 – 05 – 28	Combustion chamber temperature threshold for considering the device off	THRESHOLD OFF	°C	50 – 250	160
Pr29	M10 – 05 – 29	Flue gas extraction speed in brazier cleaning phase	SMOKE SP. CLEANING	Rpm	700 – 2800	2800
Pr30	M10 – 05 – 30	Screw feeder gear motor ON time in cleaning phase	SCREW FEEDER CLEANING	Seconds	0.0 - 8.0	1.0
Pr31	M10 – 05 – 31	Enabling of a primary room temperature probe connected to the board	MOTHERBOARD PROBE	On – Off	On – Off	Off
Pr32	M10 – 05 – 32	Preheating time	PREHEAT TIME	Seconds	0 – 250	0
Pr33	M10 – 05 – 33	PELLET CRUISE CONTROL modulation threshold	CRUISE THRESHOLD	°C	120 – 880	428
Pr34	M10 – 05 – 34	Temperature delta on PELLET CRUISE CONTROL modulation threshold	CRUISE DELTA	°C	20 – 60	40
Pr35	M10 – 05 – 35	PELLET CRUISE CONTROL modulation time	CRUISE TIME	Minutes	1 – 10	3
Pr36	M10 – 05 – 36	Time after which the intervention of the Technical Assistance Centre is requested	SERVICE HOURS	Hours	Off 260 – 2800	2000

"RELAX SET	"RELAX SETTINGS" parameters – Model DSC (L15_181119)						
Parameter	Menu level	Description	Display	Measurement	Value field	Database P2	
Pr150	M10 – 10 – 01	Heat exchanger 1 (primary) speed during the work phase with "RELAX FUNCTION" enabled	RELAX AIR SPEED	Volt	Off 65 – 225	Off	
Pr151	M10 – 10 – 02	"RELAX FUNCTION" activation time	RELAX TIME	Minutes	30 – 254 On	30	

WIRING DIAGRAM



STANDARD WARRANTY CONDITIONS

1. General information

This standard warranty (**"Klover Warranty"**) is issued by Klover Srl, San Bonifacio, Via A. Volta no. 8, for the products shown on the website www.klover.it (the **"Products"**). The Klover Warranty does not affect the rights provided for by European directive 99/44/EC or by Italian legislative decree no. 206/2005 "Consumer Code", where applicable.

The Klover Warranty is limited to Italy. Klover Srl invites Consumers not based in Italy to contact the dealer from which they bought the Product, to obtain the current warranty conditions.

2. Activation of Warranty

The Klover Warranty must be activated <u>within 60 days from the date of purchase</u> on the website <u>www.klover.it</u>, under the "Register your warranty" section. Enter the requested data and attach the delivery note or other tax document proving the purchase (e.g. receipt).

Alternatively, the warranty certificate, which can be found in each Product pack (hereinafter the "Warranty Certificate"), must be sent to Klover S.r.l. within the same 60-day term from the date of purchase, by following the instructions on the certificate.

When registering or sending the guarantee, please ensure that the customer's copy of the Warranty Certificate is retained. It must be duly completed and signed by the Consumer and by the installer, together with the delivery note or other fiscally valid document proving the purchase, in order for the Klover Warranty to be valid.

3. Two-year Klover Warranty

The Klover Warranty covers the free repair of the Product all parts of the Product that are found to be defective at origin, due to defects confirmed by Klover Srl to be exclusively attributable to the manufacturer. If it is not possible to repair the Product in any way, it will be replaced. In both cases, there will be no change to the expiry or terms of the warranty provided when the Product was purchased.

The Klover Warranty offers all the advantages of a service guaranteed directly by Klover Srl through its network of authorised service centres (Centri di Assistenza Tecnica or "C.A.T.") in Italy. The list can be found on the website www.klover.it.

The Klover Warranty will remain in effect for a period of 2 years from the date of purchase, if proven by a delivery note or other proof of purchase (e.g. receipt), stating the name of the seller, the product that was bought, and the date of purchase.

Product components replaced by an authorised dealer at the Consumer's expense as they were "out of warranty" after expiry of the two-year period will be guaranteed by Klover Srl for one year from the date of replacement, excluding costs of intervention, labour and ancillary costs.

4. Five-year Klover Warranty

If the initial start-up service is provided by an authorised TAC within 3 months from the date of purchase, the Consumer will be entitled to the Klover Warranty on the "boiler body" for a period of 5 years from the date of purchase.

The cost of the First Switch-on service is paid by the Consumer.

This Klover Warranty is valid on condition that the seasonal maintenance is performed by the local service centre as indicated in the user manual (for example, Safe Top boiler units require annual use of the Long Life protection).

The First Switch-on Report, duly completed and signed, must be kept carefully to ensure that the Klover Warranty remains operational.

5. Complaints and Assistance

As provided for by Legislative Decree 24/2002, complaints should be sent to the retailer through whom the Product was bought.

Once the retailer has checked that the Klover Warranty is in force and has not been invalidated, they will contact the local service centre to agree the terms of intervention to verify and eliminate the reported fault. If the Consumer contacts the service centre directly, the service centre must immediately inform the retailer from whom the Product was bought.

If, while inspecting the Product, the service centre finds that the reported defect is not one of the defects covered by the Warranty, the call-out and any works completed, will be paid by the Consumer.

In order to improve the service and reduce intervention time, Consumers are asked to provide the details of the Product they are calling about. In particular, the following information should be provided: • Warranty Certificate number • the name, model and serial number of the Product • the date of purchase • the reported defect.

Klover Srl will not be liable for any delays in carrying out repairs or replacements of the Product.

6. Disclaimer

Klover Products must undergo functional testing before any related masonry works are carried out (for example before tiling, installation of pilasters, or painting of the walls). Klover Srl is not liable for any costs incurred as a result of removal and/or reconstruction of related installations, or for any other ancillary intervention even if it is the result of works to replace defective parts.

Klover Srl is not liable for any faults in the Product that may be attributable to external conditions and/or events, including but not limited to insufficient installation capacity, mis-installation, lack of maintenance for maintenance not carried out in accordance with the instructions in the user manual, or misuse of the Product. The cost of any works will be paid by the Consumer in such cases.

Klover Srl declines all liability in respect of any loss or damage that may be caused directly or indirectly to the Consumer and/or to a third party or to persons, animals or property as a result of failure to comply with all the relevant instructions concerning installation, use and maintenance of the Product. The injured party must prove the loss or damage, the defect, and the causal connection, and must the retailer from which the Product was bought, in accordance with Legislative Decree 24/2002.

7. Exclusions from Klover Warranty

The Klover Warranty does not include:

• Defects in the Product that are not attributable to manufacturing defects • Defects in the products related to misinstallation or inappropriate installation • Defects related to improper functioning of the chimney flue • Defects in the Product caused by negligence, accidental breakage, normal wear and tear, tampering and/or damage during transport (scratches, dents etc.), including shipments sent free to destination, works carried out by unauthorised personnel, and additional damage caused by inappropriate intervention by the Consumer • Calibration of settings • Damage caused by the use of expired or inappropriate fuel • Transport costs.

The Klover Warranty excludes the following Product components:

• Ceramic or tempered glass, ceramic/majolica tiling and/or lacquered steel and/or cast iron. Changes in colour shades, speckling, superficial cracking, shading and minor dimensional variations are not considered Product defects, but are characteristics of the artisanal manufacturing process • Painted, chromed or gilded details, handles, dials • All the external components of the Product on which the Consumer may intervene directly during use and/or maintenance, or which may be subject to wear and tear and/or the formation of rust, or blemishes on the steel caused by harsh detergents, in particular the use of wood at a rate that exceeds the recommended hourly capacity, or the use of fuels that were not recommended or were not included in the instructions • Refractory materials or vermiculite • The pellet brazier, grille and cast iron cooking plate, the smoke deflector or flame guard, the seals, fuses or batteries in the Product's electronic components and any other removable component that may be subject to normal wear and tear • Electrical and electronic parts found to be faulty as a result of non-standard electrical connections, natural disasters or voltage variations other than the nominal variation.

8. Forum

The Court of Verona will have sole jurisdiction in the event of a dispute.



KLOVER Srl

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